PATENT COOPERATION TREATY **PCT**

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FP20062	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No. PCT/AU2004/000935	International filing date (day/month/year) 9 July 2004	Priority date (day/month/year) 11 July 2003			
International Patent Classification (IPC) or	r national classification and IPC	·			
Int. Cl. 7 B02C 4/28					
-Applicant					
TECHNOLOGICAL RESOUR	CES PTY LIMITED et al				
		·			
This report is the international prelimit Authority under Article 35 and transm	nary examination report, established by this itted to the applicant according to Article 3	6.			
2. This REPORT consists of a total of 3	sheets, including this cover sheet.	·			
3. This report is also accompanied by Al	NNEXES, comprising:				
a. X (sent to the applicant and to t	the International Bureau) a total of 2 shee	ets, as follows:			
x sheets of the description sheets containing rectifit Administrative Instructions	cations authorized by this Authority (see Ru	amended and are the basis for this report and/or ule 70.16 and Section 607 of the			
sheets which supersede the disclosure in the into Box.	earlier sheets, but which this Authority con ernational application as filed, as indicated	siders contain an amendment that goes beyond in item 4 of Box No. I and the Supplemental			
a sequence listing and/or tab	reau only) a total of (indicate type and numle related thereto, in computer readable form (see Section 802 of the Administrative Institute Institu	n only, as indicated in the Supplemental Box			
4. This report contains indications relations					
X Box No. I Basis of the re	port				
Box No. II Priority		·			
Box No. III Non-establish	ment of opinion with regard to novelty, inve	entive step and industrial applicability			
Box No. IV Lack of unity	of invention				
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain docur	nents cited .				
Box No. VII Certain defec	ts in the international application	•			
Box No. VIII Certain obser	vations on the international application				
Date of submission of the demand	Date of comple	etion of the report			
9 February 2005	14 October 20				
Name and mailing address of the IPEA/AU	Authorized Office	cer			
AUSTRALIAN PATENT OFFICE		•			
PO BOX 200, WODEN ACT 2606, AUS E-mail address: pct@ipaustralia.gov.au	SOIII DEC.				
Facsimile No. (02) 6285 3929	Telephone No.	. (02) 6283 2146			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/000935

02	c No. I	Basis of the report				
•	With res	gard to the language, this report is based on the international application in the language in which it was filed, unless is eindicated under this item.				
	The wit	his report is based on translations from the original language into the following language, hich is the language of a translation furnished for the purposes of:				
		international search (under Rules 12.3 and 23.1 (b))				
		publication of the international application (under Rule 12.4).	(B)			
	Γ	international preliminary examination (under Rules 55.2 and/or 55.3)	-			
2. 	furnish					
		the international application as originally filed/furnished	SEST AVAILABLE			
		he description:				
		pages 1-9 as originally filed/furnished				
		pages* received by this Authority on with the letter of				
	·	pages* received by this Authority on with the letter of				
	X t	he claims:				
		pages 10-12 as originally filed/furnished				
		pages* as amended (together with any statement) under Article 19	30			
		pages* 13-13A received by this Authority on 11 October 2005 with the letter of 11 October 2005 pages* received by this Authority on with the letter of				
	X t	the drawings:				
		pages 1/1 as originally filed/furnished				
		pages* received by this Authority on with the letter of pages* received by this Authority on with the letter of				
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3	. 🔲	The amendments have resulted in the cancellation of:				
		the description, pages	İ			
		the claims, Nos.				
	•	the drawings, sheets/figs				
		the sequence listing (specify):	١			
		any table(s) related to the sequence listing (specify):				
	4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs	1			
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
	* If	item 4 applies, some or all of those sheets may be marked "superseded."				

International application No.

PCT/AU2004/000935

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	13, 16-20	YES
	Claims	1-12, 14-15	NO
Inventive step (IS)	Claims	13, 16-20	YES
	Claims	1-12, 14-15	NO
Industrial applicability (IA)	Claims	1-20	YES
······································	Claims		NO
•	Novelty (N) Inventive step (IS)	Novelty (N) Claims Inventive step (IS) Claims Claims Claims Industrial applicability (IA) Claims	Novelty (N) Claims 13, 16-20 Claims 1-12, 14-15 Inventive step (IS) Claims 13, 16-20 Claims 1-12, 14-15

2. Citations and explanations (Rule 70.7)

The claims are not novel and lack an inventive step regarding the following citation:

DE 2910249 A (UKRAINSKIJ NAUTSCHNO-ISSLEDOVATELSKIJ INSTITUT METALLOV) 25 September 1980

Claims 1-12, 14-15

This document discloses a coating system for relining a roller whilst the roller is in use, wherein a metal is deposited onto worn metal portions via a spark producing electrode means.

monitoring the surface of the roll or rolls and determining the extent of wear on the surface of the roll or rolls and identifying worn sections of the roll or rolls and depositing the hard facing material onto worn roll sections.

A roll crusher assembly for use in the mining 19. industry that includes:

- (a) one or more than one roll for crushing a feed material, the roll or rolls having an outer surface that is formed from a wear resistant material;
- a means for depositing a hard facing (b) material onto the surface of the roll or rolls as the roll or rolls rotate during a crushing operation; and
- a means for monitoring the surface of the (c) roll or rolls wherein the roll surface monitoring means including a laser optical continuous monitoring means that includes a laser system mounted on a frame arranged to minimise vibrations.
 - A roll crusher assembly for use in the mining industry that includes:
- one or more than one roll for crushing a (a) 30 feed material, the roll or rolls having an outer surface that is formed from a wear resistant material;
- a means for depositing a hard facing (b) 35 material onto the surface of the roll or rolls as the roll or rolls rotate during a

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crushing operation; and

(c) a means for heat treating the deposited hard facing material on the rotating roll or rolls downstream of the hard facing deposition means in the direction of rotation of the roll or rolls.

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